

SPECIFICATION AMENDMENTS

On page 1, insert above line 1, insert--Priority Claim

The present application claims priority on European Patent Application 03256384.3 filed 9 October 2003.--

On page 1, delete line 1.

On page 1, above line 1, insert--Field of the Invention--

On page 1, above line 7, insert--Background of the Invention--

Paragraph on line 25 of page 1, ending on line 2 of page 4, has been amended as follows:

--~~The method according to the preamble of claim 1 is known from UK patent application GB 2295409 describes a known method for interconnecting electrical conduits.~~

In the known method a static pin connector part is arranged co-axially in a well and a moveable box connector part is landed on top of the pin connector part such that debris can be discharged into the borehole. US patent 5132624 discloses a downhole electrical connector with a central throughbore to permit passage of debris.--

On page 2, delete line 5-16.

Paragraph on line 18 of page 2, ending on line 13 of page 3, has been amended as follows:

-- In accordance with some embodiments of the invention there is provided a method for interconnecting electrical conduits in an underground borehole by means of an electrical connector comprising a static and a moveable connector part which parts comprise pairs of intermeshing electrical contacts that are circumferentially spaced around the periphery of a central throughbore within the static connector part, which method comprises:

- installing the static connector part substantially coaxially within the borehole or a borehole tubular such that the central throughbore provides a passage for fluid and debris and for access to the section of the borehole beneath the static connector part after retrieval of the moveable connector part; and

- lowering the movable connector part into the borehole on top of the static connector part such that the pairs of electrical contacts intermesh and that fluid and debris are discharged via the central throughbore into the section of the borehole beneath the static connector part, and wherein at least one connector part comprises at least one electrical contact, that is arranged in a sealed chamber comprising a dielectric fluid and an entrance opening which is configured to receive a mating electrical contact and which comprises a seal which is configured to inhibit contact between the dielectric and borehole fluids and to surround the electrical contacts when mated and to remain in sealing contact with the mating electrical contact after the electrical connection has been established by the connector.--

On page 3, delete line 14-33.

On page 4, delete line 1-27.

Paragraph on line 29 of page 4 has been amended as follows:

--Several non-limitative embodiments of the method according to the invention will be described in more detail and by way of example with reference to the accompanying drawings, in which:--

On page 5, above line 21, insert the following paragraphs:

--The static connector part may be mounted within a production tubing in a substantially vertical or inclined borehole and comprise:

-a throughbore which is configured to permit passage of debris and borehole fluid into the interior of the borehole below the static connector part; and

-a set of at least two electrical contacts that are mounted at regular angular intervals relative to a central axis of the central throughbore. Thus if the connector is equipped with two pairs of intermeshing electrical contacts then the contacts may be spaced at angular intervals of 180 degrees relative to the central axis and if the connector is equipped with three pairs of electrical contacts then the contacts may be spaced at angular intervals of 120 degrees relative to the central axis.

The static connector part may be retrievably secured within a production tubing of an oil and/or gas production well and may comprise a plurality of electrical contacts, that are arranged at regular angular intervals around a central axis of the throughbore and/or

production tubing and such that electrical contacts of the static part define longitudinal axes along which the mating contacts of the moveable connector part slide into the sealed chambers and which are substantially parallel to the central axis.--

On page 5, above line 29, insert the following paragraphs:

--The moveable connector part may be connected to an electrical submersible pump (ESP) system or other electrical assembly, such as a downhole gas compressor.

In such case the moveable electrical connector part may be provided with a plurality of retractable electrical contacts, which are retracted within one or more sealed sections of the moveable electrical connector part during the descent of the pump system into the production tubing and which are configured to slide out of said sealed sections of the moveable electrical connector part and to contact the corresponding electrical contact within a sealed chambers within the static electrical connector part.--

Paragraph on line 15 of page 6 has been amended as follows:

--Some embodiments of the invention have one or more of the following advantages. ~~An advantage of the~~ The downhole electrical connector according to the ~~inventions is that it is self cleaning and that debris is not trapped between the connector parts 3 and 4 so that there is no requirement to flush a dielectrical fluid around the pin and box sections 8 and 11A-C to remove any fouling, debris and/or wellbore fluids therefrom.--~~

On page 6, after line 21, insert the following paragraph:

--Debris and borehole fluids can easily flow from the spacing between the connector parts into the central throughbore and the circumferentially spaced, or non-concentric, arrangement of the electrical contacts, preferably adjacent to the central throughbore, further promotes that debris is flushed away from the spacing between the connector parts when they are joined.--

On page 7, above line 1, insert --We claim:--